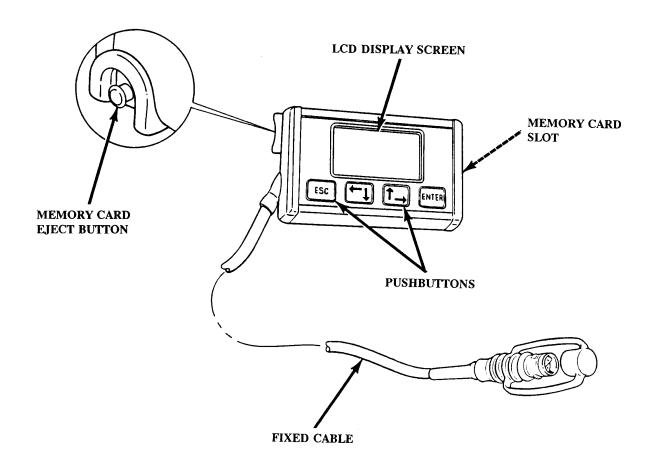
REASON

• To achieve realistic and effective training with TWGSS, tank crews must be able to correctly start, align, and verify alignment of TWGSS to the tank's FCS.

TRAINING OBJECTIVE

- Given an operational M1A2 tank with TWGSS installed and prepare-to-fire checks and boresighting completed, the crew will perform the following tasks:
 - Conduct system start-up IAW TM 9-6920-709-12&P-1-2
 - Conduct system alignment IAW TM 9-6920-709-12&P-1-2
 - · Perform alignment verification

CONTROL PANEL



CONTROL PANEL FUNCTIONS

- Monitor ammunition and ammunition upload
- Result presentation: numerical/graphic
- System alignment
- BIT and error presentation
- Controller functions
- Data storage on TDRS memory card

CONTROL PANEL MENU

F	SF	SF	SF	SF	SF	SF	SF
F	TTT	ттт	TTT	гттт	TTT	TTT.	ТТТ
F	TTT	TTT	TTT	гттт	ттт	TTT:	ттт
F	ттт	TTT	TTT	гттт	ттт	TTT.	ттт
F	ттт	TTT	TTT	гттт	TTT	TTT:	ттт
F	SSS	SSSS	sss	SSSS	SSS	SSS	SS

F = MAIN FUNCTION GROUP

SF = SUB-FUNCTION GROUP

T = TEXT AREA

S = SELECTION TITLE

PUSHBUTTON FUNCTIONS

- ENTER
 - Access to menus
 - Saves/accepts data



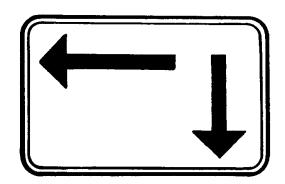
- ESC
 - Aborts menu
 - Inhibits function/selection

ESC

PUSHBUTTON FUNCTIONS

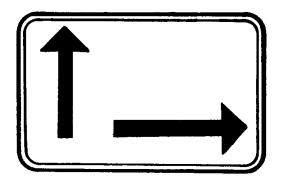
DOWN/LEFT

- Moves cursor down or left
- Decreases values for data



UP/RIGHT

- Moves cursor up or right
- Increases values for data



STARTUP PROCEDURE

- Set GTD switch to MANUAL
- Switch on vehicle master power
- Switch on turret power
- Check for FCS malfunctions on CID
- Switch on utility power
 - Select PRE/POST
 - Select AUX SYSTEMS
 - Switch on utility power

BIT INDICATIONS

- Control panel indication (pop-up screen)
- Sound indication on tank intercom
- Visual indications in hit indicators

SI	RM	GD	LF						
AL				-					
SU	NO CONNECTION								
TE	TRANSCEIVER UNIT								
CF									
	REMAINING AMMO.								

TROUBLESHOOTING PROCEDURE

Consult manual

WARNING

Do NOT disconnect/connect cables with vehicle master power switch in ON position:

- · Damage can occur to TWGSS or tank
- Main gun/turret could move suddenly and injure personnel

ALIGNMENT

• Alignment is the process where TWGSS is aligned to the tank's FCS.

TANK SETTING DURING ALIGNMENT

- Boresighted and operational tank with TWGSS installed
- 1200 m entered into FCS and boresight GPS selected
- Reticle aiming point of GPS/day and GPS/thermal
- Boresight cross of GAS

TWGSS ALIGNMENTS

- Cant alignment
- Laser alignment
- TBOS for GAS
- TBOS alignment for GPS day mode
- TBOS alignment for GPS thermal mode

SUMMARY

- Startup procedures
- System alignment
- Alignment verification

CLOSING STATEMENT

• To achieve the desired training result with TWGSS, you must be able to correctly conduct startup, system alignment, and alignment verification of TWGSS to the tank FCS.